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(12) **EX PARTE REEXAMINATION CERTIFICATE** (6865th)**United States Patent****Brown**(10) **Number:** **US 5,875,435 C1**(45) **Certificate Issued:** **Jun. 9, 2009**(54) **AUTOMATED ACCOUNTING SYSTEM**(75) **Inventor:** **Gordon T. Brown, Pittsburgh, PA (US)**(73) **Assignee:** **Noah Systems, Inc., Pittsburgh, PA (US)****Reexamination Request:**

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4,460,965 A	7/1984	Trehn
4,536,647 A	8/1985	Atalla et al.
4,549,264 A	10/1985	Carroll et al.
4,569,029 A	2/1986	Hatta et al.
4,594,663 A	6/1986	Nagata et al.
4,727,243 A	2/1988	Savar
4,799,156 A	1/1989	Shavit et al.
4,837,556 A	6/1989	Matsushita et al.
4,857,714 A	8/1989	Sunyich
4,953,085 A	8/1990	Atkins
4,958,368 A	9/1990	Parker
4,989,141 A	1/1991	Lyons et al.
5,056,019 A	10/1991	Schultz et al.
5,093,787 A	3/1992	Simmons
5,117,356 A	5/1992	Marks

Related U.S. Application Data

(Continued)

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(51) **Int. Cl.**
G06Q 40/00 (2006.01)(52) **U.S. Cl.** **705/30; 705/33; 705/39**(58) **Field of Classification Search** None
See application file for complete search history.**FOREIGN PATENT DOCUMENTS**

GB	2 251 098 A	6/1992
JP	54058332 A	5/1979
JP	03223958 A	10/1991
JP	03242793 A	10/1991
JP	7085181 A	3/1995
WO	WO 99/27477	6/1999

(Continued)

(56) **References Cited****OTHER PUBLICATIONS****U.S. PATENT DOCUMENTS**

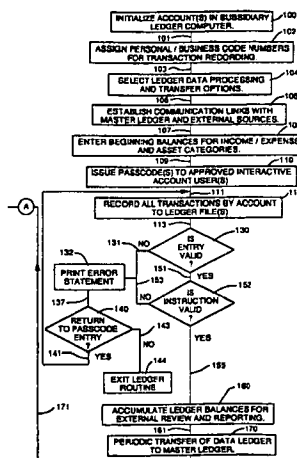
2,509,718 A	5/1950	Barbey
2,693,909 A	11/1954	Allan
3,040,984 A	6/1962	Cox et al.
3,492,655 A	1/1970	Deskevich et al.
3,623,012 A	11/1971	Lowry
3,749,892 A	7/1973	Stenning
3,985,998 A	10/1976	Crafton
4,025,905 A	5/1977	Gorgens
4,222,109 A	9/1980	Siwula
4,264,808 A	4/1981	Owens et al.
4,277,837 A	7/1981	Stuckert
4,308,588 A	12/1981	Siwula
4,321,672 A	3/1982	Braun et al.
4,341,951 A	7/1982	Benton
4,370,649 A	1/1983	Fuerle
4,376,978 A	3/1983	Musmanno
4,412,287 A	10/1983	Braddock, III

Toshiba Corporation, Agent III, Accounting Consolidation Sub-System, Nov. 11, 1992, A1, pp. 2-26, Japan.

(Continued)

Primary Examiner—Peter C. English(57) **ABSTRACT**

An automated accounting system for an entity, such as an individual or business, is provided in which at least one file is established for the entity and a plurality of data inputs are provided to the file. The data inputs include electronically recorded transactions made between the entity and other entities. Access is provided to the file for agents of the entity so that one of the agents can perform one or more activities related to the data inputs such as entering, deleting, reviewing, adjusting and processing.



U.S. PATENT DOCUMENTS

5,126,936 A	6/1992	Champion et al.
5,144,115 A	9/1992	Yoshida
5,146,067 A	9/1992	Sloan et al.
5,172,313 A	12/1992	Schumacher
5,193,055 A	3/1993	Brown et al.
5,202,826 A	4/1993	McCarthy
5,206,803 A	4/1993	Vitagliano et al.
5,220,500 A	6/1993	Baird et al.
5,220,501 A	6/1993	Lawlor et al.
5,237,159 A	8/1993	Stephens et al.
5,262,942 A	11/1993	Earle
5,265,007 A	11/1993	Barnhard, Jr. et al.
5,283,829 A	2/1994	Anderson
5,287,270 A	2/1994	Hardy et al.
5,325,290 A	6/1994	Cauffman et al.
5,326,959 A	7/1994	Perazza
5,383,113 A	1/1995	Kight et al.
5,406,475 A	4/1995	Kouchi et al.
5,412,190 A	5/1995	Josephson et al.
5,420,405 A	5/1995	Chasek
5,471,669 A	11/1995	Lidman
5,649,115 A	7/1997	Schrader et al.
5,649,117 A	7/1997	Landry
5,740,271 A	4/1998	Kunkler et al.
5,842,185 A	11/1998	Chancey et al.
5,930,778 A	7/1999	Geer
5,946,669 A	8/1999	Polk
6,226,624 B1	5/2001	Watson et al.
6,283,761 B1	9/2001	Joao
2002/0032625 A1	3/2002	Brown
2002/0046058 A1	4/2002	Brown

OTHER PUBLICATIONS

Open Financial Exchange (OFX) Specification 1.0, dated Feb. 14, 1997, publication of CheckFree Corporation, Intuit Inc., and Microsoft Corporation.

"Microsoft Online-Banking Strategy Gains Wide Industry Support", Microsoft Corporation press release, May 8, 1996, www.microsoft.com/presspass/press/1996/may96/hmbank-pr.msp.

"Quicken User Manual: Version 1.01 for Windows", Intuit Inc., 1991.

"Quicken User's Guide: Version 6 for IBM and PC Compatibles", Intuit Inc., Feb. 1993.

"Quicken User's Guide: Version 4 for Macintosh", Intuit Inc., May 1993.

"Quicken User's Guide: Version 7 for IBM and PC Compatibles", Intuit Inc., Sep. 1993.

Page et al., "Accounting and Information Systems", 4th Ed., Prentice-Hall Publishing, 1992.

Rahman et al., "Accounting Information Systems: Principles, Applications, and Future Directions", Prentice-Hall Publishing, 1988.

Boockholdt, "Accounting Information Systems: Transaction Processing and Controls", 3rd Ed., Irwin Publishing, 1993.

Page et al., "Accounting and Information Systems", 3rd Ed., Prentice-Hall Publishing, 1987.

Open Financial Exchange (OFX) Specification 1.0.1, Apr. 21, 1997, publication of CheckFree Corporation, Intuit Inc., and Microsoft Corporation.

"White Paper on Open Exchange (OE)", Sep. 16, 1996, publication of Intuit Inc.

"Extensible Markup Language (XML): W3C Working Draft Nov. 14, 1996", World Wide Web Consortium, <http://www.w3.org/TR/WD-xml-961114.html>.

Wilkinson, "Accounting Information Systems: Essential Concepts and Applications", John Wiley & Sons, Inc., 1989.

Wilkinson et al., "Accounting Information Systems: Essential Concepts and Applications", 3rd Ed., John Wiley & Sons, Inc., 1997.

Wilkinson, "Accounting Information Systems: Essential Concepts and Applications", 2nd Ed., John Wiley & Sons, Inc., 1993.

Romney et al., "Accounting Information Systems", 7th Ed., Addison-Wesley Publishing, 1997.

Gelinas et al., "Accounting Information Systems", 2nd Ed., South-Western College Publishing Co., 1993.

Gelinas et al., "Accounting Information Systems", 3rd Ed., South-Western College Publishing Co., 1996.

Davis et al., "Accounting Information Systems: A Cycle Approach", 3rd Ed., John Wiley & Sons, Inc., 1990.

Nash et al., "Accounting Information Systems", 3rd Ed., South-Western Publishing, 1993.

Bodnar et al., "Accounting Information Systems", 5th Ed., Prentice-Hall, Inc., 1993.

Cushing et al., "Accounting Information Systems and Business Organizations", 4th Ed., Addison-Wesley Publishing, 1987.

Wilkinson, "Accounting and Information Systems: Study Guide", 3rd Ed., John Wiley & Sons, 1991.

Maduegbuna, "A Critical Appraisal of the Continued Relevance of Bills of Exchange in an International Electronic Trade Environment", U. of Alberta, Master of Laws Thesis, 1992.

Antonio, "The Usefulness of the 'Audit Trail' in Electronic Data Processing Systems", Univ. of Illinois, Ph. D. dissertation, May 22, 1967.

Smith, "Transnational Banking Networks: A Telecommunications and Microcomputer Application for Small Offshore Operations", U.S. Int'l Univ., Ph.D. dissertation, May 17, 1982.

Summers, "Accounting Information Systems", Houghton Mifflin Company, 1989.

Leitch et al., "Accounting Information Systems Theory and Practice", 2nd Ed., Prentice-Hall, Inc., 1992.

Cushing et al., "Accounting Information Systems", 6th Edition, Addison-Wesley Publishing, 1994.

"Why majors have the cutting edge in proprietary debit cards", National Petroleum News, vol. 80, No. 12, pp. 34-35, Nov. 1988 (partial text).

The Depository Trust Company, "About DTC", <http://dtcserVICES.dtc.com/aboutdtc/dtcintro/dtcintro>.

Yoder et al., "Five Financial Programs for the Home", PC Magazine, Feb. 1983, pp. 106, vol. 1, No. 10.

Olivieri, "Mind Your Business: Not Another Checkbook Program", Softalk, Oct. 1983, p. 258, v4.

Jones, Mitt, "Checkfree", PC Magazine, Jan. 16, 1990, pp. 144-145, vol. 9, No. 1.

The American Express Platinum Card, <http://home1.americanexpress.com/apply/platinum/card/docs/page1b0.asp>, Nov. 1, 2000.

Kadlec, "A consolidated approach to investment fund management", TMA Journal, Sep./Oct. 1994, vol. 14, No. 5, pp. 42-46.

Cushing et al., "Accounting Information Systems: A Comprehensive Approach", 5th Edition, Addison-Wesley Publishing, 1990.

Wilkens, "How Lawyers Can Use Microcomputers", Byte Magazine, May 1984, pp. 160-167.

Dow Jones Ledger Advertisement, Byte Magazine, May 1984.

Harrison, "Recordkeeping for Small Businesses", The American Association of Small Business Accountants, 1985.

Magid, "Software Speeds Banking-At-Home with Check-Book-Balancing Function", Power Computing, Nov. 7, 1988, p. F29.

Jones, "After Hours: Products for the Leisure Side of Personal Computing", PC Magazine, Nov. 14, 1989, pp. 513-514.

Shipley, "CheckFree 3.0", PC-Computing, vol. 6, No. 1, Jan. 1993, p. 300.

Cushing, B. E. et al.; "Accounting Information Systems"; Fifth Edition; Addison-Wesley Publishing Company, Inc., 1990; 890 pages.

Altman, B.; "Check Free: A Viable Bill-Paying Alternative"; Link-up; Jan./Feb. 1991; 8, 1 p. 22.

Interview with Don Kniffin; TMA Journal, Jan./Feb. 1994, ISSN:0731-1281; pp. 34-38 (5 pages).

1

**EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307**

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in *italics* indicates additions made to the patent.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

The patentability of claims 1-18 is confirmed.

New claims 19-56 are added and determined to be patentable.

19. *The method of claim 1, wherein said first entity is an individual.*

20. *The method of claim 1, wherein said first entity is a business.*

21. *The method of claim 1, wherein at least one of said other entities is a merchant.*

22. *The method of claim 1, wherein at least one of said other entities is a financial institution.*

23. *The method of claim 1, wherein at least one of said other entities is a bank.*

24. *The method of claim 1, wherein said step of transmitting said record of each transaction and selected standardized codes to said at least one separate financial accounting system is performed via a communication network accessible by said first entity and said other entities.*

25. *The method of claim 7, wherein said first entity or said agent can perform entering of said information in said selected subsidiary ledgers.*

26. *The method of claim 7, wherein said first entity or said agent can perform deleting of said information in said selected subsidiary ledgers.*

27. *The method of claim 7, wherein said first entity or said agent can perform adjusting of said information in said selected subsidiary ledgers.*

28. *The method of claim 7, wherein said first entity or said agent can perform processing of said information in said selected subsidiary ledgers.*

29. *The system of claim 12, wherein said first entity is an individual.*

30. *The system of claim 12, wherein said first entity is a business.*

31. *The system of claim 12, wherein said financial accounting computer is operated by the first entity.*

32. *The system of claim 31, wherein said first entity is an individual.*

2

33. *The system of claim 12, wherein said financial accounting computer provides a menu of financial transaction codes for association with said financial transactions.*

34. *The system of claim 12, wherein said financial accounting computer provides a menu of standardized itemization codes for association with said financial transactions.*

35. *The system of claim 12, wherein said second entity is a merchant.*

36. *The system of claim 12, wherein said second entity is a financial institution.*

37. *The system of claim 12, wherein said second entity is a bank.*

38. *The system of claim 12, wherein said financial transactions include sale of goods and/or services from said second entity to said first entity.*

39. *The system of claim 12, wherein said financial transaction computer is operated by a merchant.*

40. *The system of claim 12, wherein said financial transaction computer is operated by a financial institution.*

41. *The system of claim 12, wherein said financial transaction computer is operated by a bank.*

42. *The system of claim 12, wherein said data inputs include electronically recorded financial transactions between said first entity and at least one additional entity.*

43. *The system of claim 42, wherein said first entity is an individual, said second entity is a merchant or financial institution, and said at least one additional entity is a merchant or a financial institution.*

44. *The system of claim 42, wherein said second entity is a merchant and said at least one additional entity is a merchant.*

45. *The system of claim 42, wherein said second entity is a merchant and said at least one additional entity is a financial institution.*

46. *The system of claim 42, wherein said second entity is a financial institution and said at least one additional entity is a financial institution.*

47. *The system of claim 12, wherein said first communication means includes communication links between said first entity, said second entity, and at least one additional entity.*

48. *The system of claim 12, wherein said access means allows said first entity and/or said agent to perform entering of said data inputs.*

49. *The system of claim 12, wherein said access means allows said first entity and/or said agent to perform deleting of said data inputs.*

50. *The system of claim 12, wherein said access means allows said first entity and/or said agent to perform adjusting of said data inputs.*

3

51. The system of claim 12, wherein said access means allows said first entity and/or said agent to perform processing of said data inputs.

52. A financial accounting system for a first entity such as an individual or a business, said system comprising:

a financial accounting computer having at least one file;

a financial transaction computer for receiving data inputs, said data inputs including electronically recorded financial transactions made between said first entity and a plurality of other entities;

first communication means for transferring said data inputs from said financial transaction computer to said file of said financial accounting computer; and

means for providing access to said file of said financial accounting computer for said first entity and/or agents of said first entity so that said first entity and/or said agent can perform one or more activities selected from the group consisting of entering, deleting, reviewing, adjusting and processing said data inputs.

53. A financial accounting system comprising:

a financial accounting computer, and

at least one ledger file on said financial accounting computer;

wherein said financial accounting computer is configured to receive data inputs from a financial transaction computer, said financial transaction computer configured to receive said data inputs including electronically recorded financial transactions made between a first entity and a second entity, and wherein said financial accounting computer stores said data inputs in said at least one ledger file, said data inputs including an electronic representation of said financial transactions made between said first entity and said second entity;

wherein said financial accounting computer and said financial transaction computer are coupled via a first

4

communication means for transferring said data inputs from said financial transaction computer to said file of said financial accounting computer; and

wherein said first entity and/or an agent of said first entity can access said file via means for providing access to said file of said financial accounting computer, said access allowing said first entity and/or said agent of said first entity to perform at least one of entering, deleting, reviewing, adjusting or processing said data inputs.

54. The financial accounting system as set forth in claim 53, wherein said financial accounting computer provides a menu of at least one financial transaction code for association with said financial transaction.

55. The financial accounting system as set forth in claim 53, wherein said financial accounting computer provides a menu of at least one standardized itemization code for association with said financial transaction.

56. A financial accounting system for a first entity such as an individual or a business, said system comprising:

a financial accounting computer having at least one file, wherein said financial accounting computer cooperates with a financial transaction computer for receiving data inputs, said data inputs including electronically recorded financial transactions made between said first entity and a plurality of other entities;

said financial accounting computer coupled to a first communication means for transferring said data inputs from said financial transaction computer to said file of said financial accounting computer; and

means for providing access to said file of said financial accounting computer for said first entity and/or agents of said first entity so that said first entity and/or said agent can perform one or more activities selected from the group consisting of entering, deleting, reviewing, adjusting and processing said data inputs.

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